

Name: _____ **Slope/Rate of Change HW #2**

Teacher: _____

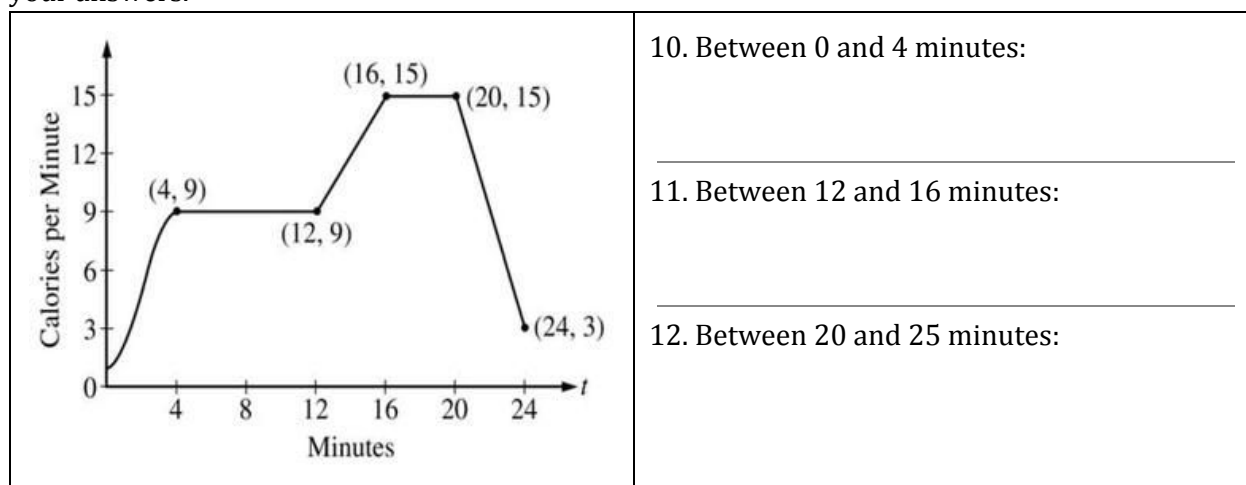
Algebra Pd: _____

Day Month Year

Part One: Calculate the slope given the two points. Write your answers as most reduced fractions or improper fractions. No mixed numbers.

1. (8, 2) and (2, 8)	2. (4, 5) and (5, 6)	3. (1, -3) and (2, -1)
4. (-6, -1) and (4, -5)	5. (12, -1) and (1, -8)	6. (-2, -4) and (-9, -6)
7. (10, 20) and (20, 10)	8. (4, -3) and (-6, 5)	9. (-1, -1) and (-4, -7)

Part Two: Find the rate of change shown by the requested interval of the graph. Use labels in your answers.



TURN PAPER OVER!

Part Three: Rate of Change Word Problems

<p>13. At the beginning of the school year, Maggie has sixteen pencils. After three months, Maggie has five pencils. What is her rate of change in pencils per month? In pencils per week?</p>	<p>14. After thirty games, Bryce Harper had twenty-five hits. After one hundred games, he had a total of eighty hits. What is his rate of change in hits per game?</p>
<p>15. Ethan started a savings account with \$450. After two months, Ethan had \$500. After six months of saving, Ethan had \$750.</p> <p>a. What is Ethan's rate of change from his start point to the two month point?</p> <hr/> <p>b. What is Ethan's rate of change from the two month point to the six month point?</p>	<p>16. An Etsy store has sold a total of sixteen bracelets by the end of February. By the end of May, the store has sold a total of forty bracelets. What is the rate of change of bracelets sold per month?</p>